



OS image for UC-3400A Series (MIL 3.4.1) Release Notes

Version: v1.2	Build: 25101605
Release Date: Oct 27, 2025	

Applicable Products

UC-3400A Series

Supported Operating Systems

Moxa Industrial Linux 3 (Debian 11)

New Features

- Moxa Connection Manager (MCM) v1.7.14.
 - The DHCP server now supports the DNS configuration option.

Enhancements

- Moxa Connection Manager (MCM) v1.7.14.
 - Improves SIM card switching time for Telit 4G modules.
 - Adds an option to allow non-MCM managed Ethernet interfaces to be controlled by the networking service.
 - Allows an empty IP gateway value to be set
 - Adds support to enable the DHCP server on multiple LAN interfaces simultaneously (previously limited to one).
 - Improves invalid Wi-Fi SSID and password detection in the MCM GUI; users are now blocked from saving configurations with invalid characters.
 - Allows the & character in Wi-Fi passwords.

Bugs Fixed

- Moxa Computer Interface Manager (MCIM):
 - An issue where the legacy method for configuring push-button actions (supported in MIL 3.0–3.3) was not available in MIL 3.4.0; support has been restored in MIL 3.4.1.
- Moxa Connection Manager (MCM) v1.7.14:
 - An issue where configuring the out-of-the-box UC cellular connection with a SIM card that has a PIN lock fails to connect to the Internet until the system was rebooted
 - An unstable reconnection when connecting to Wi-Fi BSSIDs under the same SSID.
 - An issue where an unresponsive GPST service caused MCM to stop working during GPS port sync by adding a timeout
 - An issue where MCM v1.2/v1.3 configuration files became incompatible when upgrading to v1.7.5 (MIL 3.4.0) via v1.4 or v1.5.
This issue does not occur when upgrading directly from v1.2/v1.3 to v1.7.5 or from v1.4/v1.5 to v1.7.5.
- Moxa Software Updater (MSU):
 - An issue where using the command `mx-sw-updater upgrade --local` to upgrade the system via the offline method may still require Internet access for dependency download.
- Moxa Power Manager (MPM):
 - An issue where the Wi-Fi interface becomes unresponsive or fails to reconnect after recovering from MPM power conservation mode.

Changes

N/A



Notes

- In MIL 3.4.0 released in September, 2025, new commands were introduced in the Moxa Computer Interface Manager (MCIM) utility to make it easier to customize

the push-button (RESET button) event scripts. However, we discovered that the legacy configuration methods supported in MIL 3.0 to 3.3—such as setting the push-button to restore a snapshot or trigger a user-defined script—were unintentionally not backward compatible in MIL 3.4.0.

If you have provisioning scripts that rely on “mx-interface-mgmt button” created under MIL 3.0–3.3, please ensure that you use this version of the OS image.

- If you prefer to upgrade MIL offline, you can use the offline upgrade package included in the downloaded .zip file and apply it with the mx-sw-updater utility.



Version: v1.1	Build: 25052801
Release Date: Sep 19, 2025	

Applicable Products

UC-3400A Series

Supported Operating Systems

Moxa Industrial Linux 3 (Debian 11)

New Features

- Supports mDNS for device discovery with the default port 5353 enabled.
- Moxa Connection Manager (MCM):
 - Adds the "dyn_conf" option to the "moxa-connect-manager" command to modify the configuration cache.
 - Supports "Multi-WAN", a new interface type to route traffic to the interface from which it

Enhancements

- EN 18031-1 (RED) compliant wireless cybersecurity.
To comply with EN 18031-1 wireless cybersecurity, the standard version of Moxa Industrial Linux (MIL) 3.4 includes the following changes:
 - Adds a PAM login policy
The "pam_tally2" mechanism locks the account for 300 seconds after five failed login attempts.
 - Disables SNMPv1 and SNMPv2.
 - Moxa Guardian (MG): Adds a new mode 4 in moxa-guardian.
- Moxa Computer Interface Manager (MCIM):
 - Adds a snapshot script for the push-button.
 - The auto-mount partition feature provides additional log information to verify the success or failure of the mount operation.
 - Supports new DIO commands: add/delete/list/set hook scripts.
 - Supports new button commands: add/delete/list action scripts.
- Moxa Connection Manager (MCM):
 - Adds RSSI and RSRQ signal values.
 - Supports up to two IP target hosts for the ping mechanism.
 - Supports recovery of the cellular module when it unexpectedly stops responding
- Moxa System Decommission (MSM): Enhances the "moxa-system-manager" decommission workflow to improve resilience against interruptions, such as power failures, ensuring reliable system decommissioning.
- All tools: Adds a "-J" command option to support JSON format output for Moxa tools, including MCIM, MCM, MBM, and MSU.
- The Ethernet DHCP client ID, previously fixed to the client's MAC address, can now be configured/modified.
- The username and password fields are auto-populated when the credentials are available in the APN profile data.
- The log-rotate strategy for standard models has been adjusted to apply daily rotation with 14 logs retained in the rsyslog group.

Bugs Fixed

- Configuring eth0 as a Docker interface causes the MCM tool to fail.
- Moxa Bootloader Manager (MBM): The bootloader log is displayed incorrectly in cases where it wraps (e.g., in a circular buffer).

Changes

- Moxa Computer Interface Manager (MCIM): Deprecates the "user-defined" option for a button. Use the "add_action" command to add an action script for unique names.



- Moxa Connection Manager (MCM): The DHCP server will be enabled by default when the Ethernet interface is configured as a LAN.

Notes

- The standard models of the UC-1200A, UC-2200A, UC-3400A, UC-4400A, and UC-8200 Series can achieve EN 18031-1 (RED) compliant wireless cybersecurity via two methods:

- Clean OS installation: The default system is preconfigured to comply with EN 18031-1 (RED) compliant wireless cybersecurity requirements.

- System upgrade: After upgrading to the latest OS version, execute the `mx-guardian red set` command to ensure EN 18031-1 (RED) compliant wireless cybersecurity.

- The "SNR metric" has been renamed to "SINR for LTE/NR cellular interfaces" in both the CLI and D-Bus interfaces.

- Known Issues:

Using the command `"mx-sw-updater upgrade --local"` to upgrade the system may fail if the device does not have Internet access.

The root cause is that the default installation strategy of `"moxa-software-updater"` (aligned with APT package management tool) also includes `"Recommends"` (not mandatory for the standard releases) packages, which may need Internet access to install.

Workaround: Before performing the upgrade, run the command `"echo 'APT::Install-Recommends \"false\";' | sudo tee /etc/apt/apt.conf.d/99no-recommends"` to exclude the `"Recommends"` packages from the installation process. After the upgrade is complete, run the command `"sudo rm -f /etc/apt/apt.conf.d/99no-recommends"` to remove this temporary setting.



Version: v1.0	Build: N/A
Release Date: Feb 10, 2025	

Applicable Products

UC-3400A Series

Supported Operating Systems

Moxa Industrial Linux 3 (Debian 11)

New Features

First Release

Enhancements

First Release

Bugs Fixed

First Release

Changes

First Release

Notes

N/A